

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	50	("6453355" "6714984" "5920700" "5708796" "5790176" "5627656" "5742840" "5761692" "5794061" "5794060" "5809321" "5822603" "5943046" "6006318" "6438630" "4387363" "4819079" "5276860" "5353422" "5398142" "5428732" "5619571" "5642497" "5644766" "5793938" "5808821" "5844663" "5903309" "5918088" "5920864" "5943678" "5949953" "6038665" "6067398" "6076111" "6085249" "6098074" "6138147" "6198877" "6282362" "6339828" "6370423" "6385673" "6408389" "6421750" "6442604" "6458121" "6961853" "5557674" "4914586").pn.	USPAT	OR	OFF	2006/05/17 11:35
S3	1	10/651691	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 10:42
S4	209	(grant\$3 or deny\$3 or control\$4 or allow\$3) near2 (access or permission) near2 (rule or policy) with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:14
S5	262951	(grant\$3 or deny\$3 or control\$4 or allow\$3) near2 (access or permission)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:14
S6	38	S5 with database with xml	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 10:36
S8	84	S5 with (xml adj document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 16:15
S9	76	S5 with (database near2 node)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 10:37

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S11	144	S5 with ((database or node) near2 (path or hierarchy or relationship))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 10:40
S12	32	(access adj control) with (xml adj document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 10:41
S13	4	path-level adj access adj control	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:33
S14	4707	(query\$3 or request) with (access or permission) with (node or folder)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:34
S15	357	S14 with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:37
S16	66548	access adj control	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:53
S17	79	S16 and S15	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:34
S18	5	US-6044373-\$ DID. OR US-6381602-\$ DID. OR US-6336114-\$ DID. OR US-6334130-\$ DID. OR US-6237099-\$ DID. OR US-6237099-\$ DID.	USPAT	OR	OFF	2006/05/17 11:37
S19	8	US-5193184-\$ DID. OR US-5893086-\$ DID. OR US-6101558-\$ DID. OR US-6249844-\$ DID. OR US-6457103-\$ DID. OR US-6798776-\$ DID. OR US-6901410-\$ DID. OR US-6922695-\$ DID.	USPAT	OR	OFF	2006/05/17 11:37

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S20	4	"20030208490" "20040193607"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:37
S21	2069	access adj control adj (rule or policy or protocol)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:55
S23	36	S21 same xml	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:54
S24	25	(grant\$3 or deny\$3 or control\$4 or allow\$3) near2 (access or permission) near2 (rule or policy or protocol) same (xml adj document)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:55
S25	20	deny near2 (read adj access)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 11:56
S26	24005	microsoft.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:14
S27	6997	(grant\$3 or deny\$3 or control\$4 or allow\$3) near2 (access or permission) near2 (file or folder or node or directory)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:15
S28	232	S27 and S26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 12:15
S29	18	("6038563").URPN.	USPAT	OR	OFF	2006/05/17 13:21
S30	32	("6085191").URPN.	USPAT	OR	OFF	2006/05/17 13:22
S31	3	("6631371").URPN.	USPAT	OR	OFF	2006/05/17 13:27
S32	6	("6061684" "6038563" "5878415").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/17 16:15
S33	14	("6061684").URPN.	USPAT	OR	OFF	2006/05/17 16:16

EAST Search History

S34	18	("6038563").URPN.	USPAT	OR	OFF	2006/05/17 16:16
S35	0	("2004/0193607").URPN.	USPAT	OR	OFF	2006/05/17 16:32
S36	9	("6044373").URPN.	USPAT	OR	OFF	2006/05/17 16:34
S37	10	("6473800").URPN.	USPAT	OR	OFF	2006/05/17 17:13
S39	1	10/648499	US-PGPUB; USPAT	OR	OFF	2006/05/18 10:52
S40	33	damiani.in.	USPAT	OR	OFF	2006/05/18 14:37
S41	4288	707/101	USPAT	OR	OFF	2006/05/18 14:37
S42	3841	707/103	USPAT	OR	OFF	2006/05/18 14:37
S43	2667	707/9	USPAT	OR	OFF	2006/05/18 14:37
S44	75	S43 and xml and ((access or permission) adj control)	USPAT	OR	OFF	2006/05/18 14:38
S45	17	S43 and xml and (((access or permission) adj control) same (policy or rule))	USPAT	OR	ON	2006/05/18 14:38

A fine-grained access control system for XML documents

Full text  [PDF \(331 KB\)](#)**Source** [ACM Transactions on Information and System Security \(TISSEC\) archive](#)Volume 5 , Issue 2 (May 2002) [table of contents](#)

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↑ ABSTRACT

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web system. However, these approaches typically operate at the file-system level, independently of the data that have to be protected from unauthorized accesses. Part of this problem is due to the limitations of HTML, historically used to design Web documents. The extensible markup language (XML), a markup language promoted by the World Wide Web Consortium (W3C), is de facto the standard language for the exchange of information on the Internet and represents an important opportunity to provide fine-grained access control. We present an access control model to protect information distributed on the Web that, by exploiting XML's own capabilities, allows the definition and enforcement of access restrictions directly on the structure and content of the documents. We present a language for the specification of access restrictions, which uses standard notations and concepts, together with a description of a system architecture for access control enforcement based on existing technology. The result is a flexible and powerful security system offering a simple integration with current solutions.

↑ REFERENCES

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1 Applying hierarchical and role-based access control to XML documents

 Jason Crampton

October 2004 **Proceedings of the 2004 workshop on Secure web service SWS '04**

Publisher: ACM Press

Full text available:  [pdf\(337.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

W3C Recommendations XML Encryption and XML-Digital Signature can be used to protect the confidentiality of and provide assurances about the integrity of XML documents transmitted over an insecure medium. The focus of this paper is how to control access to XML documents, once they have been received. This is particularly important for services where updates are sent to subscribers. We describe how certain access control policies for restricting access to XML documents can be enforced by encryption ...

Keywords: XML, encryption, hierarchical access control, role-based access control

2 Paper session DB-2 (databases): security and privacy: A function-based access control model for XML databases

 Naizhen Qi, Michiharu Kudo, Jussi Myllymaki, Hamid Pirahesh

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available:  [pdf\(129.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML documents are frequently used in applications such as business transactions and medical records involving sensitive information. Typically, parts of documents should be visible to users depending on their roles. For instance, an insurance agent may see the billing information part of a medical document but not the details of the patient's medical history. Access control on the basis of data location or value in an XML document is therefore essential. In practice, the number of access control ...

Keywords: XML database, access control, expressiveness, fine-grained access control, rule functions

3 Paper session DB-2 (databases): security and privacy: The case for access control on XML relationships

 Béatrice Finance, Saïda Medjdoub, Philippe Pucheral

October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available: [pdf\(392.38 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the emergence of XML as the de facto standard to exchange and disseminate information, the problem of regulating access to XML documents has attracted a considerable attention in recent years. Existing models attach authorizations to nodes of an XML document but disregard relationships between them. However, ancestor and sibling relationships may reveal information as sensitive as the one carried out by the nodes themselves (e.g., classification). This paper advocates the integration of rel ...

Keywords: XML access control, XML relationship, data confidentiality, need-to-know and consent principles

4 **DB-6 (databases): XML query processing: QFilter: fine-grained run-time XML access**

 [control via NFA-based query rewriting](#)

Bo Luo, Dongwon Lee, Wang-Chien Lee, Peng Liu

November 2004 **Proceedings of the thirteenth ACM international conference on Information and knowledge management CIKM '04**

Publisher: ACM Press

Full text available: [pdf\(351.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

At present, most of the state-of-the-art solutions for XML access controls are either (1) document-level access control techniques that are too limited to support fine-grained security enforcement; (2) view-based approaches that are often expensive to create and maintain; or (3) impractical proposals that require substantial security-related support from underlying XML databases. In this paper, we take a different approach that assumes no security support from underlying XML databases and exa ...

Keywords: XML security, data security and privacy, query rewriting

5 **Access control for XML data: A role-based approach to access control for XML**

 [databases](#)

Jingzhu Wang, Sylvia L. Osborn

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available: [pdf\(195.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In order to provide a general access control methodology for parts of XML documents, we propose combining role-based access control as found in the Role Graph Model, with a methodology originally designed for object-oriented databases. We give a description of the methodology, showing how different access modes, XPath expressions and roles can be combined, and how propagation of permissions is handled. Given this general approach, a system developer can design a complex authorization model for c ...

Keywords: role-based access control, xml databases

6 **Access control for XML data: Specifying access control policies for XML documents**

 [with XPath](#)

Irini Fundulaki, Maarten Marx

June 2004 **Proceedings of the ninth ACM symposium on Access control models and**

technologies

Publisher: ACM Press

Full text available: [pdf\(186.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Access control for XML documents is a non-trivial topic, as can be witnessed from the number of approaches presented in the literature. Trying to compare these, we discovered the need for a simple, clear and unambiguous language to state the declarative semantics of an access control policy. All current approaches state the semantics in natural language, which has none of the above properties. This makes it hard to assess whether the proposed algorithms are correct (i.e., really implement the des ...

Keywords: xml, xml access control, xpath

7 XML security: Concept-level access control for the Semantic Web

 Li Qin, Vijayalakshmi Atluri

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: [pdf\(320.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recently, the notion of the Semantic Web has been introduced to define a machine-interpretable web targeted for automation, integration and reuse of data across different applications. Under the Semantic Web, web pages are annotated by concepts that are formally defined in ontologies along with the relationships among them. As information pertaining to different concepts has varying access control requirements, in this paper, we propose an access control model for the semantic web that is capabl ...

Keywords: Semantic Web, access control, concept, ontology, propagation

8 XML access control: A bitmap-based access control for restricted views of XML documents

 Abhilash Gummadi, Jong P. Yoon, Biren Shah, Vijay Raghavan

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: [pdf\(268.58 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The information on the web is growing at a very fast pace. In this ever-accumulating data, the volume of information represented in XML format is on the rise in recent times. An organization that puts forth its information on the web in XML format has several issues to take into account such as limiting the view of intended audience to only relevant portions of the documents. To address this problem, we propose the concept of "Restricted views" to implement security in XML documents. This could ...

Keywords: XML, access control, bitmap, restricted views, security, security cube

9 XML access control: Access control of XML documents considering update operations

 Chung-Hwan Lim, Seog Park, Sang H. Son

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: [pdf\(298.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As a large quantity of information is presented in XML format on the Web, there are increasing demands for XML security. Until now, research on XML security has been focused on the security of data communication using digital signatures or encryption

technologies. As XML is also used for a data representation of data storage, XML security comes to involve not only communication security but also managerial security. Managerial security is guaranteed through access control, but existing XML acces ...

Keywords: XML document, XML update, access control

10 Access control: Derived access control specification for XML

 Siddhartha K. Goel, Chris Clifton, Arnon Rosenthal

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(203.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The growth in interchange of business and other sensitive data has led to increasing interest in access control. While broad-based access control may be adequate for library-style document bases, new applications demand different access rights on different documents, or different parts of a document. Methods have been developed that enforce fine-grained access control in XML, but the administrative complexity of hard-coding rules is still a challenge. We present an XQuery-based approach for deri ...

Keywords: XML, access control

11 Access control: XML access control using static analysis

 Makoto Murata, Akihiko Tozawa, Michiharu Kudo, Satoshi Hada

October 2003 **Proceedings of the 10th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available:  pdf(357.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Access control policies for XML typically use regular path expressions such as XPath for specifying the objects for access control policies. However such access control policies are burdens to the engines for XML query languages. To relieve this burden, we introduce static analysis for XML access control. Given an access control policy, query expression, and an optional schema, static analysis determines if this query expression is guaranteed not to access elements or attributes that are permitt ...

Keywords: XML, XPath, XQuery, access control, automaton, query optimization, schema, static analysis

12 A fine-grained access control system for XML documents

 Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati May 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available:  pdf(330.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Web-based applications greatly increase information availability and ease of access, which is optimal for public information. The distribution and sharing of information via the Web that must be accessed in a selective way, such as electronic commerce transactions, require the definition and enforcement of security controls, ensuring that information will be accessible only to authorized entities. Different approaches have been proposed that address the problem of protecting information in a Web ...

Keywords: Access control, World Wide Web, XML documents, authorizations specification

and enforcement

13 X-GTRBAC: an XML-based policy specification framework and architecture for enterprise-wide access control

 Rafaq Bhatti, Arif Ghafoor, Elisa Bertino, James B. D. Joshi
May 2005 **ACM Transactions on Information and System Security (TISSEC)**, Volume 8 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.60 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Modern day enterprises exhibit a growing trend toward adoption of enterprise computing services for efficient resource utilization, scalability, and flexibility. These environments are characterized by heterogeneous, distributed computing systems exchanging enormous volumes of time-critical data with varying levels of access control in a dynamic business environment. The enterprises are thus faced with significant challenges as they endeavor to achieve their primary goals, and simultaneously ens ...

Keywords: XML, role-based access control, secure enterprises

14 Access control for XML document: Relevancy based access control of versioned XML documents

 Mizuho Iwaihara, Somchai Chatvichienchai, Chutiporn Anutariya, Vilas Wuwongse
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(219.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Integration of version and access control of XML documents has the benefit of regulating access to rapidly growing archives of XML documents. Versioned XML documents provide us with valuable informations on dependencies between document nodes, but at the same time presenting the risk of undesirable data disclosure. In this paper we introduce the notion of relevancy-based access control, which realizes protection of versioned XML documents by various types of relevancy, such as version dependenci ...

Keywords: XML, XPath, access control, query language, security, version control

15 Access control for XML document: AC-XML documents: improving the performance of a web access control module

 Barbara Carminati, Elena Ferrari
June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(461.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Protecting information over the Web is today becoming a primary need. Although many access control models have been so far proposed to address the specific protection requirements of the web environment, no comparable amount of work has been done for finding efficient techniques for performing access control. We believe that the availability of techniques for speeding-up access control is a key issue to make an access control model widely acceptable. This is particularly crucial in an environmen ...

Keywords: XML, access control, web

16 Access control for XML document: Generalized XML security views

 Gabriel Kuper, Fabio Massacci, Nataliya Rassadko

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(168.30 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate a generalization of the notion of XML security view introduced by Stoica and Farkas [17] and later refined by Fan et al. [8]. The model consists of access control policies specified over DTDs with XPath expression for data-dependent access control policies. We provide the notion of *security views* for characterizing information accessible to authorized users. This is a transformed (sanitized) DTD schema that can be used by users for query formulation and optimization. Then w ...

Keywords: XML access control, XML views, XPath

17 Access control: An access control model for querying XML data

 Sabrina De Capitani di Vimercati, Stefania Marrara, Pierangela Samarati

November 2005 **Proceedings of the 2005 workshop on Secure web services SWS '05**

Publisher: ACM Press

Full text available:  pdf(160.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the last few years, an increasing amount of semi-structured data have become available electronically to humans and programs. In such a context, XML is rapidly erging as the new standard for semi-structured data representation and exchange on the Internet.

Securing XML data is then becoming increasingly important and several attempts at developing methods for securing XML data have been proposed. However, these proposals do not take into consideration scenarios where users want to query XML data by ...

Keywords: XML, XML access control, XQuery

18 XML access control: RDF metadata for XML access control

 Vaibhav Gowadia, Csilla Farkas

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(215.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In this paper we present an access control framework that provides flexible security granularity for XML documents. RDF statements are used to represent security objects and to express security policy. The concepts of simple security object and association security object are defined. Our model allows to express and enforce access control on XML trees and their associations. Access control rules, corresponding to $(s, o, \pm a)$ triples, are represented as RDF statements with properties ...

Keywords: RDF metadata, RXACL, XML security, access control, association objects, flexible security granularity, tree extension

19 Session 2: secure Web services: Designing a distributed access control processor for

 network services on the Web

Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(301.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

20 [Session 3: XML applications: Regulating access to SMIL formatted pay-per-view movies](#)



Naren Kodali, Duminda Wijesekera

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(331.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML [15] has become a standard format for information that moves within the World Wide Web. Previous work in securing XML documents concentrated mainly on textual documents. Those proposals are ineffective in the context of multimedia, which mostly comprises of some sensible combination of images, text, audio, and video. As multimedia constitutes a significant component of the traffic within the Internet, it requires to be secured. We propose an access control model and an encryption mechanism t ...

Keywords: SMIL, XML, access control, encryption, integrity, pay-per-view, smart card, synchronized multimedia

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21 [The YGuard access control model: set-based access control](#)

 Ty van den Akker, Quinn O. Snell, Mark J. Clement

 May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  [pdf\(275.75 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As Internet usage proliferates, resource security becomes both more important and more complex. Contemporary users and systems are ill-equipped to deal with the complex security demands of a ubiquitous, insecure network. The YGuard Access Control Model, developed at Brigham Young University, employs set-based access control lists, XML, and a modular architecture to provide users with an intuitive, extensible, and efficient method of controlling access to system resources. The implementat ...

Keywords: XML, XSet, XWeb, YGuard, access control list, access control model, set



22 [Fine grained access control for SOAP E-services](#)

 Ernesto Damiani, Sabrina De Capitani di Vimercati, Stefano Paraboschi, Pierangela Samarati April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(258.34 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SOAP, XML, access control, certificates, roles



23 [Virtual enterprise access control requirements](#)

M. Coetzee, Jan H. P. Eloff

September 2003 **Proceedings of the 2003 annual research conference of the South African institute of computer scientists and information technologists on Enablement through technology SAICSIT '03**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available:  [pdf\(126.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current developments in IT point towards the formation of loosely coupled enterprises, often referred to as virtual enterprises. These enterprises require both secure and flexible collaboration between unrelated information systems. Web services technology can be

used as an ideal platform for realising virtual enterprises through their ease of integration, flexibility, and support of XML vocabularies. To ensure the successful implementation of Web services within virtual enterprises, new approa ...

Keywords: B2B, SOAP, XML, access control, design, federation, management, roles, security, standardization, trust, virtual enterprises, web services

24 X-gtrbac admin: A decentralized administration model for enterprise-wide access control

 Rafae Bhatti, Basit Shafiq, Elisa Bertino, Arif Ghafoor, James B. D. Joshi
November 2005 **ACM Transactions on Information and System Security (TISSEC)**,
Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(751.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The modern enterprise spans several functional units or administrative domains with diverse authorization requirements. Access control policies in an enterprise environment typically express these requirements as authorization constraints. While desirable for access control, constraints can lead to conflicts in the overall policy in a multidomain environment. The administration problem for enterprise-wide access control, therefore, not only includes authorization management for users and resourc ...

Keywords: XML, policy administration, role-based access control, secure interoperation

25 Role administration: X-GTRBAC admin: a decentralized administration model for enterprise wide access control

 Rafae Bhatti, James Joshi, Elisa Bertino, Arif Ghafoor
June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(260.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Access control in enterprises is a key research area in the realm of Computer Security because of the unique needs of the target enterprise. As the enterprise typically has large user and resource pools, administering the access control based on any framework could in itself be a daunting task. This work presents X-GTRBAC Admin, an administration model that aims at enabling policy administration within a large enterprise. In particular, it simplifies the process of user-to-role and permission-to ...

Keywords: XML, decentralized administration, role based access control, temporal constraints

26 Poster Session: Access control for XML: a dynamic query rewriting approach

 Sriram Mohan, Arijit Sengupta, Yuqing Wu
October 2005 **Proceedings of the 14th ACM international conference on Information and knowledge management CIKM '05**

Publisher: ACM Press

Full text available:  pdf(87.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Being able to express and enforce role-based access control on XML data is a critical component of XML data management. However, given the semi-structured nature of XML, this is non-trivial, as access control can be applied on the values of nodes as well as on the structural relationship between nodes. In this context, we adopt and extend a graph editing language for specifying role-based access constraints in the form of security views.

A Security Annotated Schema (SAS) is proposed as the inter ...

Keywords: XML, access control, query rewrite, security view

27 Session 4: Web service applications: Dynamically authorized role-based access control for secure distributed computation

 C. Joncheng Kuo, Polar Humenn

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(171.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a mechanism for using the Object Management Group's Common Secure Interoperability Version 2 (CSIV2), Authorization Token Layer Acquisition Service (ATLAS), and XML security standards such as Security Assertion Markup Language (SAML) to develop role-based access control (RBAC) in a secure distributed computation system. The need for RBAC became evident in this kind of system because the components of the system are configured dynamically in specific neighbor relationships to e ...

Keywords: CORBA, Role-based access control, XML-based security assertions, attribute certificates, authorization domain

28 Access control: An access control framework for business processes for web services

 Hristo Koshutanski, Fabio Massacci

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(269.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Business Processes for Web Services are the new paradigm for the lightweight integration of business from different enterprises. Whereas the security and access control policies for basic web services and distributed systems are well studied and almost standardized, there is not yet a comprehensive proposal for an access control architecture for business processes. The major issue is that a business process describe complex services that cross organizational boundaries and are provided by entitie ...

Keywords: controlled disclosure, distributed systems security, e-business, interactive access control, security management, web services

29 Activeweb: XML-based active rules for web view derivations and access control

Hidenari Kiyomitsu, Atsunori Takeuchi, Katsumi Tanaka

January 2001 **Australian Computer Science Communications , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01 , Proceedings of the workshop on Information technology for virtual enterprises ITVE '01**, Volume 23 Issue 6

Publisher: IEEE Computer Society , IEEE Computer Society , IEEE Computer Society Press

Full text available:  pdf(905.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#)
 [Publisher Site](#)

In this paper, we propose an idea of using XML-based active rules for deriving Web views and for defining access control by user access behaviors. The major objective of the proposed method is to reflect author(creator)'s intention about his/her Web data and its

link structures. In our *ActiveWeb*, the view of a Web page including its hyperlinks is changed according to each user's browsing situation including access history or the aggregated information about all users' access histories. In ...

Keywords: ECA rules, XML, activeweb, internet application, spatio-temporal, web personalization, web views

30 Workshop on testing, analysis and verification of web services (TAV-WEB) papers: 

 Static analysis of role-based access control in J2EE applications

Gleb Naumovich, Paolina Centonze

September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Publisher: ACM Press

Full text available:  [pdf\(110.63 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This work describes a new technique for analysis of Java 2, Enterprise Edition (J2EE) applications. In such applications, Enterprise Java Beans (EJBs) are commonly used to encapsulate the core computations performed on Web servers. Access to EJBs is protected by application servers, according to role-based access control policies that may be created either at development or deployment time. These policies may prohibit some types of users from accessing specific EJB methods. We present a static te ...

31 Access control: First experiences using XACML for access control in distributed 

 systems

Markus Lorch, Seth Proctor, Rebekah Lepro, Dennis Kafura, Sumit Shah

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  [pdf\(459.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Authorization systems today are increasingly complex. They span domains of administration, rely on many different authentication sources, and manage permissions that can be as complex as the system itself. Worse still, while there are many standards that define authentication mechanisms, the standards that address authorization are less well defined and tend to work only within homogeneous systems. This paper presents XACML, a standard access control language, as one component of a distributed a ...

Keywords: access control decision, access control enforcement, authorization, distributed system security, policy language, policy management

32 Reports: Report on the 9th ACM symposium on access control models and 

 technologies (SACMAT'04)

Elena Ferrari

September 2004 **ACM SIGMOD Record**, Volume 33 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(111.20 KB\)](#) Additional Information: [full citation](#), [abstract](#)

SACMAT'04 was held on June 2--4, 2004, at Yorktown Heights, New York, USA and was hosted by IBM T.J. Watson Research Center. The symposium, which was colocated with the IEEE International Workshop on Policies for Distributed Systems and Networks (POLICY 2004), continues its tradition of being the premier forum for presentation of research results and experience reports on leading edge issues of access control and related technologies, including models, systems, applications, and theory. SACMA ...

33 Access control policy implementation: Succinct specifications of portable document 

 access policies

Marina Bykova, Mikhail Atallah

June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  [pdf\(210.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When customers need to each be given portable access rights to subset of documents from large universe of n available documents, it is often the case that the space available for representing each customer's access rights is limited to much less than n , say it is no more than m bits. This is the case when, e.g., limited-capacity inexpensive cards are used to store the access rights to huge multimedia document databases. How does one represent subsets of huge set of n el ...

Keywords: access control, access control enforcement, algorithm design, compact policy representation, computational complexity, portable access rights

34 Applications: Context sensitive access control

 R. J. Hulsebosch, A. H. Salden, M. S. Bargh, P. W. G. Ebben, J. Reitsma

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  [pdf\(145.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We investigate the practical feasibility of using context information for controlling access to services. Based solely on situational context, we show that users can be transparently provided anonymous access to services and that service providers can still impose various security levels. Thereto, we propose context-sensitive verification methods that allow checking the user's claimed authenticity in various ways and to various degrees. More precisely, conventional information management approac ...

Keywords: access control, authentication, context sensitive, context verification, service usage patterns

35 Secure and selective dissemination of XML documents

 Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(678.34 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

36 A compressed accessibility map for XML

 Ting Yu, Divesh Srivastava, Laks V. S. Lakshmanan, H. V. Jagadish

June 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 2

Publisher: ACM Press

Full text available:  pdf(528.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is the undisputed standard for data representation and exchange. As companies transact business over the Internet, letting authorized customers directly access, and even modify, XML data offers many advantages in terms of cost, accuracy, and timeliness. Given the complex business relationships between companies, and the sensitive nature of information, access must be provided selectively, using sophisticated access control specifications. Using the specification directly to determine if a user ...

Keywords: Access control, XML, structural locality

37 Research sessions: security and privacy: Secure XML querying with security views 

 Wenfei Fan, Chee-Yong Chan, Minos Garofalakis

June 2004 **Proceedings of the 2004 ACM SIGMOD international conference on Management of data**

Publisher: ACM Press

Full text available:  pdf(229.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The prevalent use of XML highlights the need for a generic, flexible access-control mechanism for XML documents that supports efficient and secure query access, without revealing sensitive information unauthorized users. This paper introduces a novel paradigm for specifying XML security constraints and investigates the enforcement of such constraints during XML query evaluation. Our approach is based on the novel concept of *security views*, which provide for each user group (a) an XML view ...

38 On specifying security policies for web documents with an XML-based language 

 Elisa Bertino, Silvana Castano, Elena Ferrari

May 2001 **Proceedings of the sixth ACM symposium on Access control models and technologies**

Publisher: ACM Press

Full text available:  pdf(290.20 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid growth of the Web and the ease with which data can be accessed facilitate the distribution and sharing of information. Information dissemination often takes the form of documents that are made available at Web servers, or that are actively broadcasted by Web servers to interested clients. In this paper, we present an XML-compliant formalism for specifying security-related information for Web document protection. In particular, we introduce X-Sec, an XML-based lang ...

Keywords: XML, access control, security policies, subject credentials

39 Key management and key exchange: A temporal key management scheme for 

 **secure broadcasting of XML documents**

Elisa Bertino, Barbara Carminati, Elena Ferrari

November 2002 **Proceedings of the 9th ACM conference on Computer and communications security**

Publisher: ACM Press

Full text available:  pdf(242.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Secure broadcasting of web documents is becoming a crucial need for many web-based applications. Under the broadcast document dissemination strategy a web document source periodically broad-casts (portions of) its documents to a possibly large community of subjects, without the need of explicit subject requests. By secure broadcasting we mean that the delivery of information to subjects must obey the access control policies of

the document source. Since different subjects may have the right to ...

Keywords: XML, secure broadcasting, temporal key management

40 Model driven security: From UML models to access control infrastructures 

 David Basin, Jürgen Doser, Torsten Lodderstedt

January 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,
Volume 15 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(968.83 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a new approach to building secure systems. In our approach, which we call Model Driven Security, designers specify system models along with their security requirements and use tools to automatically generate system architectures from the models, including complete, configured access control infrastructures. Rather than fixing one particular modeling language for this process, we propose a general schema for constructing such languages that combines languages for modeling systems with ...

Keywords: Model Driven Architecture, Object Constraint Language, Role-Based Access Control, Unified Modeling Language, metamodeling, security engineering

Results 21 - 40 of 200

Result page: previous [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

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